ABSTRACT OF THE DISCLOSURE

The geometric texture and the graininess of an output image
are improved in half tone processing using an error diffusion
method. An image processing method where half tone processing
is performed on input images using an error diffusion method
comprising steps of generating a sine wave where the amplitude
and the frequency are modulated according to the average value
of the target pixel value and the peripheral pixel values, adding
the diffused quantization errors, the target pixel value and
the sine wave, quantizing the addition result by a predetermined
number of grayscale levels, and calculating the quantization
errors of the peripheral pixels from the errors by quantization.
By applying a disturbance sine wave by the error diffusion method,
diffusion errors can be uniformly dispersed, and geometric
texture and graininess can be improved.